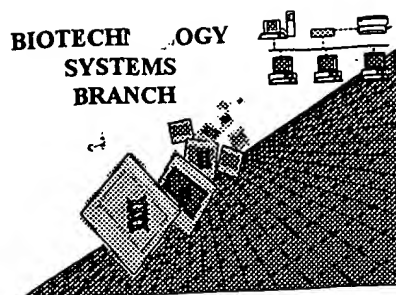


## **RAW SEQUENCE LISTING** **ERROR REPORT**



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/580,156A  
Source: OIP  
Date Processed by STIC: 7/16/2001

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:**

### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be down loaded from the USPTO website at the following address:**  
**<http://www.uspto.gov/web/offices/pac/checker>**

## Raw Sequence Listing Error Summary

**ERROR DETECTED**

### SUGGESTED CORRECTION

SERIAL NUMBER: 09/580,156A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- |    |  |   |
|----|--|---|
| 1  | _____ Wrapped Nucleics<br>_____ Wrapped Aminos | The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."  |
| 2  | _____ Invalid Line Length                      | The rules require that a line not exceed 72 characters in length. This includes white spaces.   |
| 3  | _____ Misaligned Amino<br>_____ Numbering      | The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.   |
| 4  | _____ Non-ASCII                                | The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.  |
| 5  | _____ Variable Length                          | Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.  |
| 6  | _____ PatentIn 2.0<br>_____ "bug"              | A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.  |
| 7  | _____ Skipped Sequences<br>(OLD RULES)         | Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:<br>(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)<br>(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)<br>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)<br>This sequence is intentionally skipped<br><br>Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences. |
| 8  | _____ Skipped Sequences<br>(NEW RULES)         | Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.<br><210> sequence id number<br><400> sequence id number<br>000  |
| 9  | _____ Use of n's or Xaa's<br>(NEW RULES)       | Use of n's and/or Xaa's have been detected in the Sequence Listing.<br>Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.<br>In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.  |
| 10 | _____ Invalid <213><br>_____ Response          | Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence   |
| 11 | _____ Use of <220>                             | Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.<br>(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)  |
| 12 | _____ PatentIn 2.0<br>_____ "bug"              | Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.   |

OIPE

## RAW SEQUENCE LISTING

DATE: 07/16/2001

PATENT APPLICATION: US/09/580,156A

TIME: 14:18:03

Input Set : A:\97489us1.app

Output Set: N:\CRF3\07162001\I580156A.raw

Does Not Comply  
Corrected Diskette Needed

pp 4-5

3 <110> APPLICANT: SANDBERG, LAWRENCE B.  
4 MITTS, THOMAS F.  
6 <120> TITLE OF INVENTION: ELASTIN PEPTIDE ANALOGS AND USES THEREOF  
8 <130> FILE REFERENCE: 97-489-US-P  
10 <140> CURRENT APPLICATION NUMBER: 09/580,156A  
11 <141> CURRENT FILING DATE: 2000-05-30  
13 <150> PRIOR APPLICATION NUMBER: 09/039,308  
14 <151> PRIOR FILING DATE: 1998-03-13  
16 <150> PRIOR APPLICATION NUMBER: PCT/US99/05496  
17 <151> PRIOR FILING DATE: 1999-03-12  
19 <160> NUMBER OF SEQ ID NOS: 54  
21 <170> SOFTWARE: PatentIn Ver. 2.1  
23 <210> SEQ ID NO: 1  
24 <211> LENGTH: 3  
25 <212> TYPE: PRT  
26 <213> ORGANISM: mammalian  
28 <400> SEQUENCE: 1  
29 Ala Val Gly  
30 1  
33 <210> SEQ ID NO: 2  
34 <211> LENGTH: 4  
35 <212> TYPE: PRT  
36 <213> ORGANISM: mammalian  
38 <400> SEQUENCE: 2  
39 Val Gly Ala Gly  
40 1  
43 <210> SEQ ID NO: 3  
44 <211> LENGTH: 3  
45 <212> TYPE: PRT  
46 <213> ORGANISM: mammalian  
48 <400> SEQUENCE: 3  
49 Ile Gly Gly  
50 1  
53 <210> SEQ ID NO: 4  
54 <211> LENGTH: 2  
55 <212> TYPE: PRT  
56 <213> ORGANISM: mammalian  
58 <400> SEQUENCE: 4  
59 Leu Gly  
60 1  
63 <210> SEQ ID NO: 5  
64 <211> LENGTH: 4  
65 <212> TYPE: PRT  
66 <213> ORGANISM: mammalian  
68 <400> SEQUENCE: 5  
69 Ile Gly Ala Gly  
70 1

## RAW SEQUENCE LISTING

DATE: 07/16/2001

PATENT APPLICATION: US/09/580,156A

TIME: 14:18:03

Input Set : A:\97489us1.app

Output Set: N:\CRF3\07162001\I580156A.raw

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76 <213> ORGANISM: mammalian  
78 <400> SEQUENCE: 6  
79 Leu Gly Gly  
80 1  
83 <210> SEQ ID NO: 7  
84 <211> LENGTH: 4  
85 <212> TYPE: PRT  
86 <213> ORGANISM: mammalian  
88 <400> SEQUENCE: 7  
89 Val Ala Pro Gly  
90 1  
93 <210> SEQ ID NO: 8  
94 <211> LENGTH: 4  
95 <212> TYPE: PRT  
96 <213> ORGANISM: mammalian  
98 <400> SEQUENCE: 8  
99 Leu Gly Pro Gly  
100 1  
103 <210> SEQ ID NO: 9  
104 <211> LENGTH: 4  
105 <212> TYPE: PRT  
106 <213> ORGANISM: mammalian  
108 <400> SEQUENCE: 9  
109 Leu Gly Ala Gly  
110 1  
113 <210> SEQ ID NO: 10  
114 <211> LENGTH: 4  
115 <212> TYPE: PRT  
116 <213> ORGANISM: mammalian  
118 <400> SEQUENCE: 10  
119 Val Gly Pro Gly  
120 1  
123 <210> SEQ ID NO: 11  
124 <211> LENGTH: 4  
125 <212> TYPE: PRT  
126 <213> ORGANISM: mammalian  
128 <400> SEQUENCE: 11  
129 Phe Gly Pro Gly  
130 1  
133 <210> SEQ ID NO: 12  
134 <211> LENGTH: 4  
135 <212> TYPE: PRT  
136 <213> ORGANISM: mammalian  
138 <400> SEQUENCE: 12  
139 Val Gly Pro Gln  
140 1

## RAW SEQUENCE LISTING

DATE: 07/16/2001

PATENT APPLICATION: US/09/580,156A

TIME: 14:18:03

Input Set : A:\97489us1.app

Output Set: N:\CRF3\07162001\I580156A.raw

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146 <213> ORGANISM: mammalian  
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149 Leu Gly Ala  
150 1  
153 <210> SEQ ID NO: 14  
154 <211> LENGTH: 4  
155 <212> TYPE: PRT  
156 <213> ORGANISM: mammalian  
158 <400> SEQUENCE: 14  
159 Val Gly Pro Ala  
160 1  
163 <210> SEQ ID NO: 15  
164 <211> LENGTH: 4  
165 <212> TYPE: PRT  
166 <213> ORGANISM: mammalian  
168 <400> SEQUENCE: 15  
169 Val Val Pro Gly  
170 1  
173 <210> SEQ ID NO: 16  
174 <211> LENGTH: 4  
175 <212> TYPE: PRT  
176 <213> ORGANISM: mammalian  
178 <400> SEQUENCE: 16  
179 Ala Val Pro Gly  
180 1  
183 <210> SEQ ID NO: 17  
184 <211> LENGTH: 4  
185 <212> TYPE: PRT  
186 <213> ORGANISM: mammalian  
188 <400> SEQUENCE: 17  
189 Val Val Pro Gln  
190 1  
193 <210> SEQ ID NO: 18  
194 <211> LENGTH: 6  
195 <212> TYPE: PRT  
196 <213> ORGANISM: mammalian  
198 <400> SEQUENCE: 18  
199 Val Ala Ala Arg Pro Gly  
200 1 5  
203 <210> SEQ ID NO: 19  
204 <211> LENGTH: 7  
205 <212> TYPE: PRT  
206 <213> ORGANISM: mammalian  
208 <400> SEQUENCE: 19  
209 Leu Gly Ala Gly Gly Ala Gly  
210 1 5

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/580,156A

DATE: 07/16/2001

TIME: 14:18:03

Input Set : A:\97489us1.app

Output Set: N:\CRF3\07162001\I580156A.raw

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 214 <211> LENGTH: 4  
 215 <212> TYPE: PRT  
 216 <213> ORGANISM: mammalian  
 218 <400> SEQUENCE: 20  
 219 Ala Ile Pro Gly  
 220 1  
 223 <210> SEQ ID NO: 21  
 224 <211> LENGTH: 5  
 225 <212> TYPE: PRT  
 226 <213> ORGANISM: mammalian  
 228 <400> SEQUENCE: 21  
 229 Leu Gly Pro Gly Gly  
 230 1 5  
 233 <210> SEQ ID NO: 22  
 234 <211> LENGTH: 5  
 235 <212> TYPE: PRT  
 236 <213> ORGANISM: mammalian  
 238 <400> SEQUENCE: 22  
 239 Ala Ala Ala Gln Ala  
 240 1 5  
 243 <210> SEQ ID NO: 23  
 244 <211> LENGTH: 5  
 245 <212> TYPE: PRT  
 246 <213> ORGANISM: mammalian  
 248 <220> FEATURE:  
 249 <221> NAME/KEY: MOD\_RES  
 250 <222> LOCATION: (4)  
 252 <400> SEQUENCE: 23  
 W--> 253 Val Gly Val (Xaa) Gly  
 254 1 5  
 257 <210> SEQ ID NO: 24  
 258 <211> LENGTH: 5  
 259 <212> TYPE: PRT  
 260 <213> ORGANISM: mammalian  
 262 <400> SEQUENCE: 24  
 263 Val Tyr Pro Gly Gly  
 264 1 5  
 267 <210> SEQ ID NO: 25  
 268 <211> LENGTH: 6  
 269 <212> TYPE: PRT  
 270 <213> ORGANISM: mammalian  
 272 <400> SEQUENCE: 25  
 273 Ile Gly Gly Val Gly Gly  
 274 1 5  
 277 <210> SEQ ID NO: 26  
 278 <211> LENGTH: 6  
 279 <212> TYPE: PRT  
 280 <213> ORGANISM: mammalian

*This is not an explanation of what Xaa represents*  
*Per 1.823 of new Sequence Rules, C2217, C2227, and C2237 are*  
*mandatory*  
*whenever "Xaa"*  
*is present.*  
*(see item 9 on*  
*Erra Summary*  
*Sheet)*

## RAW SEQUENCE LISTING

DATE: 07/16/2001

PATENT APPLICATION: US/09/580,156A

TIME: 14:18:03


Input Set : A:\97489us1.app

Output Set: N:\CRF3\07162001\I580156A.raw

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283 Val Ala Pro Gly Val Gly
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289 <212> TYPE: PRT
290 <213> ORGANISM: mammalian
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293 Leu Gly Val Gly Gly
294   1           5
297 <210> SEQ ID NO: 28
298 <211> LENGTH: 4
299 <212> TYPE: PRT
300 <213> ORGANISM: mammalian
302 <400> SEQUENCE: 28
303 Leu Val Pro Gly
304   1
307 <210> SEQ ID NO: 29
308 <211> LENGTH: 5
309 <212> TYPE: PRT
310 <213> ORGANISM: mammalian
312 <400> SEQUENCE: 29
313 Phe Arg Ala Ala Ala
314   1           5
317 <210> SEQ ID NO: 30
318 <211> LENGTH: 6
319 <212> TYPE: PRT
320 <213> ORGANISM: mammalian
322 <400> SEQUENCE: 30
323 Val Gly Gly Val Pro Gly
324   1           5
327 <210> SEQ ID NO: 31
328 <211> LENGTH: 5
329 <212> TYPE: PRT
330 <213> ORGANISM: mammalian
332 <400> SEQUENCE: 31
333 Phe Gly Pro Gly Gly
334   1           5
337 <210> SEQ ID NO: 32
338 <211> LENGTH: 5
339 <212> TYPE: PRT
340 <213> ORGANISM: mammalian
342 <400> SEQUENCE: 32
343 Val Gly Val Pro Gly
344   1           5
347 <210> SEQ ID NO: 33
348 <211> LENGTH: 6
349 <212> TYPE: PRT
350 <213> ORGANISM: mammalian

```


 Use of n and/or Xaa has been detected in the Sequence Listing.  
 Review the Sequence Listing to insure a corresponding  
 explanation is presented in the <220> to <223> fields of  
 each sequence using n or Xaa.

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/580,156A

DATE: 07/16/2001

TIME: 14:18:04

Input Set : A:\97489us1.app

Output Set: N:\CRF3\07162001\I580156A.raw

L:253 M:258 W: Mandatory Feature missing, &lt;223&gt; not found for SEQ ID#:23

L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23

L:367 M:258 W: Mandatory Feature missing, &lt;223&gt; not found for SEQ ID#:34

L:367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34